

What is claimed is:

1. A recording apparatus for recording images on a recording medium which is conveyed in a direction by discharging ink droplets from a recording head to the recording medium, the recording head having an ink discharging surface comprising:

a non-scanning recording head having a plurality of recording head units aligned in a width direction perpendicular to the conveying direction; and

a uniformizing unit positioned between the recording head units for keeping a distance between the recording medium and the surface.

2. The recording apparatus according to claim 1, wherein the recording medium comprises a front surface for receiving the ink and a back surface, the uniformizing unit comprises a supporting member for supporting the back surface and a pressing member for pressing the recording medium on the supporting member, the supporting member and the pressing member define a paper path for transporting the recording medium.

3. The recording apparatus according to claim 2, further comprising a common substrate for holding the recording head units and the pressing members, the recording head units attached removably to the substrate.

4. The recording apparatus according to claim 2, wherein the pressing member comprises a contact member for contacting the recording medium and a pushing unit for pushing the contact

member on the supporting member with a prescribed elastic force.

5. The recording apparatus according to claim 4, wherein the pushing unit is operable to adjust the force.

6. The recording apparatus according to claim 5, wherein the contact member is a spur.

7. The recording apparatus according to claim 6, wherein the spur is rotated following the conveyance of the recording medium.

8. The recording apparatus according to claim 1, further comprising a plurality of members for conveying the recording medium in the conveying direction.

9. The recording apparatus according to claim 8, wherein the member comprises a shaft and a plurality of spurs.

10. The recording apparatus according to claim 9, wherein the shaft is positioned along the direction perpendicular to the conveying direction.

11. The recording apparatus according to claim 10, wherein the spurs are held by the shaft at certain intervals.

12. The recording apparatus according to claim 11, wherein the recording head units are held by a recording head array and the member is provided between the recording head arrays.

13. The recording apparatus according to claim 12, wherein the member is arranged among the recording head arrays and on the upstream of the most upstream recording head array and on the downstream of the most downstream recording head array along the conveying direction.

14. A recording head array for discharging ink droplets to a recording medium, the recording head array comprising:

a plurality of recording head units, the recording head units having an ink discharging surface; and

a uniformizing unit positioned between the recording head units for keeping a distance between the recording medium and the surface.

15. The recording head array according to claim 14, wherein the recording medium comprises a front surface for receiving the ink and a back surface, the member comprises a supporting member for supporting the back surface and a pressing member for pressing the recording medium on the supporting member.

16. The recording head array according to claim 15, further comprising a common substrate for holding the recording head units and the pressing member, the recording head units attached removably to the substrate.

17. The recording head array according to claim 16, wherein the pressing member comprises a contact member for contacting the recording medium and a pushing unit for pushing the contact member on the supporting member with a prescribed elastic force.

18. The recording head array according to claim 17, wherein the pushing unit is operable to adjust the force.

19. The recording head array according to claim 18, wherein the contact member is a spur.

20. The recording head array according to claim 19, wherein

the spur is rotated following the conveyance of the recording medium.